O3cə

RAW SEQUENCE LISTING
DATE: 01/08/2003
PATENT APPLICATION: US/09/884,319
TIME: 10:30:11

Input Set : **N:\Crf3\RULE60\09884319.raw**
Output Set: **N:\CRF4\01082003\I884319.raw**

SEQUENCE LISTING
```
 3 (1) GENERAL INFORMATION:
 5     (i) APPLICANT: Lin, Lih-Ling
 6                   Graham, James
 8    (ii) TITLE OF INVENTION: NOVEL INTERLEUKIN-1 RECEPTOR
 9                            INTRACELLULAR LIGAND PROTEINS AND INHIBITORS OF LIGAND
10                            BINDING
12   (iii) NUMBER OF SEQUENCES: 7
14    (iv) CORRESPONDENCE ADDRESS:
15         (A) ADDRESSEE: LEGAL AFFAIRS, GENETICS INSTITUTE, INC.
16         (B) STREET: 87 CambridgePark Drive
17         (C) CITY: Cambridge
18         (D) STATE: MA
19         (E) COUNTRY: USA
20         (F) ZIP: 02140
22     (v) COMPUTER READABLE FORM:
23         (A) MEDIUM TYPE: Floppy disk
24         (B) COMPUTER: IBM PC compatible
25         (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26         (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
28    (vi) CURRENT APPLICATION DATA:
C--> 29       (A) APPLICATION NUMBER: US/09/884,319
C--> 30       (B) FILING DATE: 18-Jun-2001
31            (C) CLASSIFICATION:
33   (vii) PRIOR APPLICATION DATA:
W--> 34       (A) APPLICATION NUMBER: US/09/083,516
35            (B) FILING DATE:
W--> 37       (A) APPLICATION NUMBER: 08/487,942
38            (B) FILING DATE:
40  (viii) ATTORNEY/AGENT INFORMATION:
41         (A) NAME: Brown, Scott A.
42         (B) REGISTRATION NUMBER: 32,724
43         (C) REFERENCE/DOCKET NUMBER: GI5258
45    (ix) TELECOMMUNICATION INFORMATION:
46         (A) TELEPHONE: (617) 498-8224
47         (B) TELEFAX: (617) 876-5851
50 (2) INFORMATION FOR SEQ ID NO: 1:
52     (i) SEQUENCE CHARACTERISTICS:
53         (A) LENGTH: 1571 base pairs
54         (B) TYPE: nucleic acid
55         (C) STRANDEDNESS: double
56         (D) TOPOLOGY: linear
58    (ii) MOLECULE TYPE: cDNA
```

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: **US/09/884,319**

DATE: 01/08/2003

TIME: 10:30:11

Input Set : **N:\Crf3\RULE60\09884319.raw**

Output Set: **N:\CRF4\01082003\I884319.raw**

```
60    (iii) HYPOTHETICAL: NO
63    (ix) FEATURE:
64          (A) NAME/KEY: CDS
65          (B) LOCATION: 2..529
68    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
70  G ATC CCC AGG GTG GAC CTC CGG GTG TGG CAG GAC TGC TGT GAA GAC        46
71    Ile Pro Arg Val Asp Leu Arg Val Trp Gln Asp Cys Cys Glu Asp
72     1               5                  10                  15
74  TGT AGG ACC AGG GGG CAG TTC AAT GCC TTT TCC TAT CAT TTC CGA GGC        94
75  Cys Arg Thr Arg Gly Gln Phe Asn Ala Phe Ser Tyr His Phe Arg Gly
76  ·              20                  25                  30
78  AGA CGG TCT CTT GAG TTC AGC TAC CAG GAG GAC AAG CCG ACC AAG AAA      142
79  Arg Arg Ser Leu Glu Phe Ser Tyr Gln Glu Asp Lys Pro Thr Lys Lys
80              35                  40                  45
82  ACA AGA CCA CGG AAA ATA CCC AGT GTT GGG AGA CAG GGG GAA CAT CTC      190
83  Thr Arg Pro Arg Lys Ile Pro Ser Val Gly Arg Gln Gly Glu His Leu
84          50                  55                  60
86  AGC AAC AGC ACC TCA GCC TTC AGC ACA CGC TCA GAT GCA TCT GGG ACA      238
87  Ser Asn Ser Thr Ser Ala Phe Ser Thr Arg Ser Asp Ala Ser Gly Thr
88          65                  70                  75
90  AAT GAC TTC AGA GAG TTT GTT CTG GAA ATG CAG AAG ACC ATC ACA GAC      286
91  Asn Asp Phe Arg Glu Phe Val Leu Glu Met Gln Lys Thr Ile Thr Asp
92  80                  85                  90          ·        95
94  CTC AGA ACA CAG ATA AAG AAA CTT GAA TCA CGG CTC AGT ACC ACA GAG      334
95  Leu Arg Thr Gln Ile Lys Lys Leu Glu Ser Arg Leu Ser Thr Thr Glu
96                  100                 105                 110
98  TGC GTG GAT GCC GGG GGC GAA TCT CAC GCC AAC AAC ACC AAG TGG AAA      382
99  Cys Val Asp Ala Gly Gly Glu Ser His Ala Asn Asn Thr Lys Trp Lys
100             115                 120                 125
102 AAA GAT GCA TGC ACC ATT TGT GAA TGC AAA GAC GGG CAG GTC ACC TGC      430
103 Lys Asp Ala Cys Thr Ile Cys Glu Cys Lys Asp Gly Gln Val Thr Cys
104         130                 135                 140
106 TTC GTG GAA GCT TGC CCC CCT GCC ACC TGT GCT GTC CCC GTG AAC ATC      478
107 Phe Val Glu Ala Cys Pro Pro Ala Thr Cys Ala Val Pro Val Asn Ile
·108        145                 150                 155
110 CCA GGG GCC TGC TGT CCA GTC TGC TTA CAG AAG AGG GCG GAG GAA AAG      526
111 Pro Gly Ala Cys Cys Pro Val Cys Leu Gln Lys Arg Ala Glu Glu Lys
112 160                 165     ·          170                 175
114 CCC TAGGCTCCTG GGAGGCTCCT CAGAGTTTGT CTGCTGTGCC ATCGTGAGAT     '    579
115 Pro
118 CGGGTGGCCG ATGGCAGGGA GCTGCGGACT GCAGACCAGG AAACACCCAG AACTCGTGAC     639
120 ATTTCATGAC AACGTCCAGC TGGTGCTGTT ACAGAAGGCA GTGCAGGAGG CTTCCAACCA     699
122 GAGCATCTGC GGAGAAGGAG GCACAGCAGG TGCCTGAAGG GAAGCAGGCA GGAGTCCTAG     759
124 CTTCACGTTA GACTTCTCAG GTTTTTATTT AATTCTTTTA AAATGAAAAA TTGGTGCTAC     819
126 TATTAAATTG CACAGTTGAA TCATTTAGGC GCCTAAATTG ATTTTGCCTC CCAACACCAT     879
128 TTCTTTTTAA ATAAAGCAGG ATACCTCTAT ATGTCAGCCT TGCCTTGTTC AGATGCCAGG     939
130 AGCCGGCAGA CCTGTCACCC GCAGGTGGGG TGAGTCTCGG AGCTGCCAGA GGGGCTCACC     999
132 GAAATCGGGG TTCCATCACA AGCTATGTTT AAAAAGAAAA TTGGTGTTTG CCAAACGGAA    1059
134 CAGAACCTTT GATGAGAGCG TTCACAGGGA CACTGTCTGG GGGTGCAGTG CAAGCCCCCG    1119
```

```
136 GCCTCTTCCC TGGGAACCTC TGAACTCCTC CTTCCTCTGG GCTCTCTGTA ACATTTCACC   1179
138 ACACGTCAGC ATCTAATCCC AAGACAAACA TTCCCGCTGC TCGAAGCAGC TGTATAGCCT   1239
140 GTGACTCTCC GTGTGTCAGC TCCTTCCACA CCTGATTAGA ACATTCATAA GCCACATTTA   1299
142 GAAACAGGTT TGCTTTCAGC TGTCACTTGC ACACATACTG CCTAGTTGTG AACCAAATGT   1359
144 GAAAAAACCT CCTTCATCCC ATTGTGTATC TGATACCTGC CGAGGGCCAA GGGTGTGTGT   1419
146 TGACAACGCC GCTCCCAGCC GGCCCTGGTT GCGTCCACGT CCTGAACAAG AGCCGCTTCC   1479
148 GGATGGCTCT TCCCAAGGGA GGAGGAGCTC AAGTGTCGGG AACTGTCTAA CTTCAGGTTG   1539
150 TGTGAGTGCG TTAAAAAAAA AAAAAAAAAA AA                                 1571
153 (2) INFORMATION FOR SEQ ID NO: 2:
155     (i) SEQUENCE CHARACTERISTICS:
156         (A) LENGTH: 176 amino acids
157         (B) TYPE: amino acid
158         (D) TOPOLOGY: linear
160     (ii) MOLECULE TYPE: protein
162     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
164 Ile Pro Arg Val Asp Leu Arg Val Trp Gln Asp Cys Cys Glu Asp Cys
165 1               5                   10                  15
167 Arg Thr Arg Gly Gln Phe Asn Ala Phe Ser Tyr His Phe Arg Gly Arg
168             20                  25                  30
170 Arg Ser Leu Glu Phe Ser Tyr Gln Glu Asp Lys Pro Thr Lys Lys Thr
171         35                  40                  45
173 Arg Pro Arg Lys Ile Pro Ser Val Gly Arg Gln Gly Glu His Leu Ser
174     50                  55                  60
176 Asn Ser Thr Ser Ala Phe Ser Thr Arg Ser Asp Ala Ser Gly Thr Asn
177 65                  70                  75                  80
179 Asp Phe Arg Glu Phe Val Leu Glu Met Gln Lys Thr Ile Thr Asp Leu
180             85                  90                  95
182 Arg Thr Gln Ile Lys Lys Leu Glu Ser Arg Leu Ser Thr Thr Glu Cys
183             100                 105                 110
185 Val Asp Ala Gly Gly Glu Ser His Ala Asn Asn Thr Lys Trp Lys Lys
186         115                 120                 125
188 Asp Ala Cys Thr Ile Cys Glu Cys Lys Asp Gly Gln Val Thr Cys Phe
189     130                 135                 140
191 Val Glu Ala Cys Pro Pro Ala Thr Cys Ala Val Pro Val Asn Ile Pro
192 145                 150                 155                 160
194 Gly Ala Cys Cys Pro Val Cys Leu Gln Lys Arg Ala Glu Glu Lys Pro
195             165                 170                 175
198 (2) INFORMATION FOR SEQ ID NO: 3:
200     (i) SEQUENCE CHARACTERISTICS:
201         (A) LENGTH: 1088 base pairs
202         (B) TYPE: nucleic acid
203         (C) STRANDEDNESS: double
204         (D) TOPOLOGY: linear
206     (ii) MOLECULE TYPE: cDNA
208     (iii) HYPOTHETICAL: NO
211     (ix) FEATURE:
212         (A) NAME/KEY: CDS
213         (B) LOCATION: 2..961
216     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
```

RAW SEQUENCE LISTING   DATE: 01/08/2003
PATENT APPLICATION: US/09/884,319   TIME: 10:30:11

Input Set : N:\Crf3\RULE60\09884319.raw
Output Set: N:\CRF4\01082003\I884319.raw

```
218 G AAA AAA GGA GGT AAA ACA GAA CAG GAT GGC TAT CAG AAA CCC ACC        46
219   Lys Lys Gly Gly Lys Thr Glu Gln Asp Gly Tyr Gln Lys Pro Thr
220   1               5                   10                  15
222 AAC AAA CAC TTC ACG CAG AGT CCC AAG AAG TCA GTG GCC GAC CTG CTG       94
223 Asn Lys His Phe Thr Gln Ser Pro Lys Lys Ser Val Ala Asp Leu Leu
224                 20                  25                  30
226 GGG TCC TTT GAA GGC AAA CGA AGA CTC CTT CTG ATC ACT GCT CCC AAG       142
227 Gly Ser Phe Glu Gly Lys Arg Arg Leu Leu Leu Ile Thr Ala Pro Lys
228             35                  40                  45
230 GCT GAG AAC AAT ATG TAT GTG CAA CAA CGT GAT GAA TAT CTG GAA AGT       190
231 Ala Glu Asn Asn Met Tyr Val Gln Gln Arg Asp Glu Tyr Leu Glu Ser
232         50                  55                  60
234 TTC TGC AAG ATG GCT ACC AGG AAA ATC TCT GTG ATC ACC ATC TTC GGC       238
235 Phe Cys Lys Met Ala Thr Arg Lys Ile Ser Val Ile Thr Ile Phe Gly
236     65                  70                  75
238 CCT GTC AAC AAC AGC ACC ATG AAA ATC GAC CAC TTT CAG CTA GAT AAT       286
239 Pro Val Asn Asn Ser Thr Met Lys Ile Asp His Phe Gln Leu Asp Asn
240 80                  85                  90                  95
242 GAG AAG CCC ATG CGA GTG GTG GAT GAT GAA GAC TTG GTA GAC CAG CGT       334
243 Glu Lys Pro Met Arg Val Val Asp Asp Glu Asp Leu Val Asp Gln Arg
244             100  ,               105                 110
246 CTC ATC AGC GAG CTG AGG AAA GAG TAC GGA ATG ACC TAC AAT GAC TTC       382
247 Leu Ile Ser Glu Leu Arg Lys Glu Tyr Gly Met Thr Tyr Asn Asp Phe
248             115                 120                 125
250 TTC ATG GTG CTA ACA GAT GTG GAT CTG AGA GTC AAG CAA TAC TAT GAG       430
251 Phe Met Val Leu Thr Asp Val Asp Leu Arg Val Lys Gln Tyr Tyr Glu
252         130                 135                 140
254 GTA CCA ATA ACA ATG AAG TCT GTG TTT GAT CTG ATC GAT ACT TTC CAG       478
255 Val Pro Ile Thr Met Lys Ser Val Phe Asp Leu Ile Asp Thr Phe Gln
256     145                 150                 155
258 TCC CGA ATC AAA GAT ATG GAG AAG CAG AAG AAG GAG GGC ATT GTT TGC       526
259 Ser Arg Ile Lys Asp Met Glu Lys Gln Lys Lys Glu Gly Ile Val Cys
260 160                 165                 170                 175
262 AAA GAG GAA GTT GGG GGA GTG TTA GAA CTG TTC CCA ATT AAT GGG AGC       574
263 Lys Glu Glu Val Gly Gly Val Leu Glu Leu Phe Pro Ile Asn Gly Ser
264             180                 185                 190
266 TCT GTT GTT GAG CGA GAA GAC GTA CCA GCC CAT TTG GTG AAA GAC ATT       622
267 Ser Val Val Glu Arg Glu Asp Val Pro Ala His Leu Val Lys Asp Ile
268             195                 200                 205
270 CGT AAC TAT TTT CAA GTG AGC CCG GAG TAC TTC TCC ATG CTT CTA GTC       670
271 Arg Asn Tyr Phe Gln Val Ser Pro Glu Tyr Phe Ser Met Leu Leu Val
272         210                 215                 220
274 GGA AAA GAC GGA AAT GTC AAA TCC TGG TAT CCT TCC CCA ATG TGG TCC       718
275 Gly Lys Asp Gly Asn Val Lys Ser Trp Tyr Pro Ser Pro Met Trp Ser
276     225                 230                 235
278 ATG GTG ATT GTG TAC GAT TTA ATT GAT TCG ATG CAA CTT CGG AGA CAG       766
279 Met Val Ile Val Tyr Asp Leu Ile Asp Ser Met Gln Leu Arg Arg Gln
280 240                 245                 250                 255
282 GAA ATG GCG ATT CAG CAG TCA CTG GGG ATG CGC TGC CAG AAG ATG AGT       814
```

```
283 Glu Met Ala Ile Gln Gln Ser Leu Gly Met Arg Cys Gln Lys Met Ser
284             260             265             270
286 ATG CAG GCT ATG GTT ACC ATA GTT ACC ACC AAG GAT ACC AGG ATG GTT        862
287 Met Gln Ala Met Val Thr Ile Val Thr Thr Lys Asp Thr Arg Met Val
288             275             280             285
290 ACC AGG ATG ACT ACC GTC ATC ATG AGA GTT ATC ACC ATG GAT ACC CTT        910
291 Thr Arg Met Thr Thr Val Ile Met Arg Val Ile Thr Met Asp Thr Leu
292         290             295             300
294 ACT GAG CAG AAA TAT GTA ACC TTA GAC TCA GCC AGT TTC CTC TGC AGC        958
295 Thr Glu Gln Lys Tyr Val Thr Leu Asp Ser Ala Ser Phe Leu Cys Ser
296     305             310             315
298 TGC TAAAACTACA TGTGGCCAGC TCCATTCTTC CACACTGCGT ACTACATTTC            1011
299 Cys
300 320
302 CTGCCTTTTT CTTTCAGTGT TTTTCTAAGA CTAAATAAAT AGCAAACTTT CACCTAAAAA      1071
304 AAAAAAAAAA AAAAAA                                                      1088
307 (2) INFORMATION FOR SEQ ID NO: 4:
309         (i) SEQUENCE CHARACTERISTICS:
310             (A) LENGTH: 320 amino acids
311             (B) TYPE: amino acid
312             (D) TOPOLOGY: linear
314         (ii) MOLECULE TYPE: protein
316         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
318 Lys Lys Gly Gly Lys Thr Glu Gln Asp Gly Tyr Gln Lys Pro Thr Asn
319   1           5               10              15
321 Lys His Phe Thr Gln Ser Pro Lys Lys Ser Val Ala Asp Leu Leu Gly
322             20              25              30
324 Ser Phe Glu Gly Lys Arg Arg Leu Leu Leu Ile Thr Ala Pro Lys Ala
325         35              40              45
327 Glu Asn Asn Met Tyr Val Gln Gln Arg Asp Glu Tyr Leu Glu Ser Phe
328     50              55              60
330 Cys Lys Met Ala Thr Arg Lys Ile Ser Val Ile Thr Ile Phe Gly Pro
331 65              70              75              80
333 Val Asn Asn Ser Thr Met Lys Ile Asp His Phe Gln Leu Asp Asn Glu
334             85              90              95
336 Lys Pro Met Arg Val Val Asp Asp Glu Asp Leu Val Asp Gln Arg Leu
337         100             105             110
339 Ile Ser Glu Leu Arg Lys Glu Tyr Gly Met Thr Tyr Asn Asp Phe Phe
340     115             120             125
342 Met Val Leu Thr Asp Val Asp Leu Arg Val Lys Gln Tyr Tyr Glu Val
343     130             135             140
345 Pro Ile Thr Met Lys Ser Val Phe Asp Leu Ile Asp Thr Phe Gln Ser
346 145             150             155             160
348 Arg Ile Lys Asp Met Glu Lys Gln Lys Lys Glu Gly Ile Val Cys Lys
349             165             170             175
351 Glu Glu Val Gly Gly Val Leu Glu Leu Phe Pro Ile Asn Gly Ser Ser
352             180             185             190
354 Val Val Glu Arg Glu Asp Val Pro Ala His Leu Val Lys Asp Ile Arg
355         195             200             205
```

VERIFICATION SUMMARY　　　　　　　　DATE: 01/08/2003
PATENT APPLICATION:　**US/09/884,319**　　TIME: 10:30:12

Input Set : **N:\Crf3\RULE60\09884319.raw**
Output Set: **N:\CRF4\01082003\I884319.raw**

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:37 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)